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10/086,029	02/27/2002	Nancy Cam-Winget	ATH-0073	3975
30547	7590	01/23/2008	EXAMINER	
BEVER HOFFMAN & HARMS, LLP			ZIA, SYED	
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SUITE 320			2131	
SAN JOSE, CA 95110			MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/086,029	CAM-WINGET ET AL.
	Examiner	Art Unit
	Syed Zia	2131

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 03 October 2007.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-41 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-9, 14, 16-17, 20-30, 33, 35-38, and 41 is/are rejected.
 7) Claim(s) 10-13, 15, 18, 19, 31, 32, 34, 39 and 40 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Response to Amendment

This office action is in response to remarks filed on October 3, 2007. Original application contained Claims 1-41. Applicant previously amended Claims 9, 13, 18, 21, 27-34, and 40-41. Therefore, presently pending claims are 1-41.

Response to Arguments

Applicant's arguments with respect to claims 1-41 have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 10-13, 15, 18-19, 31-32, 34, and 39-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten, and merged with independent claim(s) including all the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-9, 14, 16-17, 20-30, 33, 35-38, and 41 are rejected under 35 U.S.C. 102(b) as being anticipated by Gray et al. U. S. Patent 5,706,348.

2. Regarding Claim 1, Gray teach and describe a method for encrypted communications between a first transceiver and a second transceiver, the method comprising: sending from a first transceiver to a second transceiver a request to initiate derivation of a new encryption key, the request to initiate a new encryption key derivation being controlled by a MAC sub-layer and including an exchange threshold indicative of when the new encryption key is to be used to encrypt communication packets (col.3 line 48 to col.5 line 39).

3. Regarding Claim 26, Gray teach and describe a first transceiver that is to conduct encrypted communications with a second transceiver, the first transceiver comprising: a physical control layer that sends to the second transceiver a request to initiate derivation of a new encryption key, the request to initiate a new encryption key derivation being controlled by a MAC sub-layer and including an exchange threshold indicative of when the new encryption key is to be used to encrypt communication packets (col.3 line 48 to col.5 line 39).

4. Regarding Claim 37, Gray teach and describe a first transceiver that is to conduct encrypted communications with a second transceiver, the first transceiver comprising: a physical control layer that receives from the second transceiver a request to initiate derivation of a new encryption key, the request to initiate a new encryption key derivation being controlled by a MAC sub-layer and including an exchange threshold indicative of when the new encryption key is to be used to encrypt communication packets, and a first nonce needed to derive the new encryption key (col.3 line 48 to col.5 line 39).

5. Claims 2-7, 8, 14, 29-30, 33, and 33, and 36 are rejected applied as above rejecting Claims 1, 26, and 37. Furthermore

As per claim 2-5, wherein the exchange threshold is: a time, a counter value, a number of packets, at least one of a time, a counter value, and a number of packets (col. 3 line 48 to col.4 line 40).

As per claim 6, wherein the request to initiate derivation of the new encryption key includes a timeout limit that indicates that a session is to be at least one of aborted or retried when the timeout limit is satisfied (col. 3 line 48 to col.4 line 40).

As per claim 7, wherein the request to initiate derivation of the new encryption key is sent from the first transceiver to the second transceiver and the new encryption key is to be generated at the second transceiver, in response to the request, before a key space of an old nonce value has been exhausted (col. 5 line 56 to col.6 line 8).

As per claim 8, wherein the request to initiate derivation of the new encryption key includes a first nonce needed to derive the new encryption key (col. 5 line 40 to line 48).

As per claim 14, further comprising: determining whether the new encryption key needs to be derived; and wherein sending the request to initiate derivation of the new encryption key is based upon the determination of whether the new encryption key needs to be derived (col.6 line 55 to col.7 line 46).

As per claim 27, wherein the exchange threshold is a number of packets (col. 3 line 48 to col.4 line 40).

As per claim 29-30, wherein: the request to initiate derivation of the new encryption key includes a timeout limit that indicates that a session is to be at least one of aborted or retried when the timeout limit is satisfied, the request to initiate derivation of the new encryption key includes a first nonce needed to derive the new encryption key (col. 4 line 41 to col.5 line 39).

As per claim 33, wherein the physical control layer determines whether the new encryption key needs to be derived before sending the request to initiate derivation of the new encryption key; and wherein sending the request to initiate derivation of the new encryption key is based upon the determination of whether the new encryption key needs to be derived (col. 4 line 41 to col.5 line 39).

As per claim 36, wherein the physical control layer sends the request early enough so that the new encryption key is to be generated at the second transceiver, in response to the request, before a key space of an old nonce value has been exhausted (col. 4 line 41 to col.5 line 39).

As per claim 38, wherein the physical control layer sends to the second transceiver, in response to the request to initiate derivation of the new encryption key, a second nonce (col. 4 line 60 to col.5 line 39).

6. Claims 9, 16, 35, and 35 are rejected applied as above rejecting Claims 8, 15, and 34.

Furthermore

As per claim 9, further comprising: sending from the second transceiver to the first transceiver, in response to the request to initiate derivation of the new encryption key, a second nonce needed to derive the new encryption key (col. 4 line 41 to col.5 line 39).

As per claim 16 further comprising: continuing communication between the first transceiver and the second transceiver using for encryption an old encryption key generated before the new encryption key when the exchange threshold has still not been satisfied (col. 4 line 41 to col.5 line 39).

As per claim 35, wherein the physical control layer continues using for encryption an old encryption key generated before the new encryption key when the exchange threshold has still not been satisfied (col. 3 line 40 to col.5 line 39).

As per claim 38, wherein the physical control layer sends to the second transceiver, in response to the request to initiate derivation of the new encryption key, a second nonce (col.4 line 41 to col.5 line 39).

As per claim 41, wherein the physical control layer continues communication between the first transceiver and the second transceiver using for encryption an old encryption key generated

before the new encryption key when the exchange threshold has still not been satisfied (col. 3 line 40 to col.5 line 39).

6. Claims 17, 20-25 are rejected applied as above rejecting Claims 16, 19. Furthermore

As per claim 17, wherein encrypting using the new encryption key occurs without disrupting communication between the first transceiver and the second transceiver (col. 4 line 41 to col.5 line 39).

As per claim 20, wherein the request to initiate derivation of the new encryption key includes a new initial nonce value and encrypting includes using the initial nonce value and the new encryption key for encryption, the method further comprising: determining whether the new encryption key needs to be derived; and wherein sending the request to initiate derivation of the new encryption key is based upon the determination of whether the new encryption key needs to be derived (col. 4 line 41 to col.5 line 39).

As per claim 21, the method comprising: sending from first receiver to the second transceiver a first transceiver authentication indication that authenticates the first transceiver to the second transceiver; and sending from the second transceiver to the first transceiver a second transceiver authentication indication that authenticates the second transceiver to the first transceiver (col. 4 line 41 to col.5 line 39, and col.5 line 65 to col.6 line 8)).

As per claim 22, further comprising sending from the first transceiver to the second transceiver the second nonce (col. 4 line 41 to col.5 line 39).

As per claim 23 further comprising: continuing communication between the first transceiver and the second transceiver using an old encryption key generated before the new encryption key when the exchange threshold has still not been satisfied (col. 4 line 41 to col.5 line 39, and col.5 line 65 to col.6 line 8).

As per claim 24, wherein encrypting using the new encryption key occurs without disrupting communication between the first transceiver and the second transceiver col. 4 line 41 to col.5 line 39).

As per claim 25, wherein the request to initiate derivation of the new encryption key includes a timeout limit that indicates that a communication is one of aborted and retried when the timeout limit is satisfied (col. 4 line 41 to col.5 line 39).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Zia whose telephone number is 571-272-3798. The examiner can normally be reached on 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SZ
January 16, 2008


SYED A. ZIA 01/16/2008
PRIMARY EXAMINER